#### RAW SEQUENCE LISTING PATENT APPLICATION US/08/572,027B

DATE: 05/06/98 TIME: 12:59:02

INPUT SET: S25565.raw

This Raw Listing contains the General Information Section and up to the first Wages

SEQUENCE LISTING 1 2 3 (1)General Information: 4 5 (i) APPLICANT: DeBonte, L. et al. 6 7 (ii) TITLE OF INVENTION: PLANTS HAVING MUTANT SEQUENCES THAT CONFER 8 ALTERED FATTY ACID PROFILES 9 10 (iii) NUMBER OF SEQUENCES: 8 11 12 13 (iv) CORRESPONDENCE ADDRESS: 14 (A) ADDRESSEE: Fish & Richardson P.C., P.A. 15 (B) STREET: 60 South Sixth Street, Suite 3300 16 (C) CITY: Minneapolis (D) STATE: MN 17 18 (E) COUNTRY: USA 19 (F) ZIP: 55402 20 21 (V) COMPUTER READABLE FORM: 22 (A) MEDIUM TYPE: Diskette 23 (B) COMPUTER: IBM compatible 24 (C) OPERATING SYSTEM: Windows95 25 (D) SOFTWARE: FastSEQ for Windows Version 2.0 26 27 (vi) CURRENT APPLICATION DATA: 28 (A) APPLICATION NUMBER: US 08/572,027 (B) FILING DATE: 14-DEC-1995 29 30 (C) CLASSIFICATION: 31 32 (vi) PRIOR APPLICATION DATA: 33 (A) APPLICATION NUMBER: US 08/416,497 34 (B) FILING DATE: 04-APR-1995 35 (C) CLASSIFICATION: 36 37 (vi) PRIOR APPLICATION DATA: 38 (A) APPLICATION NUMBER: US 08/170,886 39 (B) FILING DATE: 21-DEC-1993 40 (C) CLASSIFICATION: 41 42 (vi) PRIOR APPLICATION DATA: 43 (A) APPLICATION NUMBER: US 07/739,965 RECEIVED PATE: 05-AUG-1991 44 45 46

DEC 0 2 1998

Publishing Division
Corres/Allowed Files (09)

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/572,027B

DATE: 05/06/98 TIME: 12:59:03

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												#1		DEZE. L	123303.14W
47 48 49	(A) APPLICATION NUMBER: US 07/575,542														
50 51		, ,	CLASS												
52	(viii	) ATTOE													
53		, ,	NAME:		-	•									
54		(B)	REGIST	rat:	ION 1	NUMBI	ER: 3	34,8	12						
55		(C)	REFERE	ENCE/	/DOCI	KET I	NUMBI	ER: A	421-5	535.	10				
56															
57	(ix	) TELEC	COMMUN	CAT	ON :	INFO	RMAT	ION:							
58	· ·														
59	(B) TELEFAX: 612/288-9696														
60															
	61 (2) INFORMATION FOR SEQ ID NO:1:														
	61 (2) INFORMATION FOR SEQ ID NO:1: 62														
	62 (i) SEQUENCE CHARACTERISTICS:														
	( -	, –						re							
	(A) LENGTH: 1155 base pairs														
	(B) TYPE: nucleic acid														
	(C) STRANDEDNESS: single														
	57 (D) TOPOLOGY: linear														
	68														
	69 (ii) MOLECULE TYPE: DNA														
70	, , , , ,	\	nii iom t a i	. T . 1	10										
71	(111	) HYPOI	PHETICA	<b>УГ:</b> Г	NO										
72	, 2	, , , , , m ~	CHNCH												
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76		(A)	ORGAN	LSM:	Bras	SSIC	a nap	pus							
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78	(1X	) FEATU		T.17.		<b>7703</b> 7		1 3 1.		- F-					
79		(D)	OTHER	INF	JRMA'	LTON	: W1.	ια τ	ype i	r IO	rm.				
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81															
82	( X 1	) SEQUE	ENCE DE	SCR.	Tb.I.T(	on: :	SEQ .	TD NO	):1:						
83			·			a	ama	mam	aam	~~~	шаа			mam	4.0
84	ATG GGT														48
85	Met Gly	Ala Gi		Arg	мет	GIn	val		Pro	Pro	ser	гàг		ser	
86	1		5					10					15		
87															
88	GAA ACC														96
89	Glu Thr			Lys	Arg	Val		Cys	Glu	Thr	Pro		Phe	Thr	
90		2	20				25					30			
91															
92	GTC GGA														144
93	Val Gly	Glu Le	eu Lys	Lys	Ala	Ile	Pro	Pro	His	Cys	Phe	Lys	Arg	Ser	
94		35				40					45				
95															
96	ATC CCT														192
97	Ile Pro	Arg Se	er Phe	Ser	_	Leu	Ile	Trp	Asp		Ile	Ile	Ala	Ser	
98	50				55					60					
99															

#### RÁW SEQUENCE LISTING PATENT APPLICATION US/08/572,027B

DATE: 05/06/98 TIME: 12:59:04

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														#11	11 0 1	DITE.	323303.74W
100	TGC	TTC	TAC	TAC	NTC	GCC	ACC	ACT	TAC	TTC	CCT	CTC	CTC	CCT	CAC	CCT	240
101	Cvs	Phe	Tvr	Tyr	Xaa	Ala	Thr	Thr	Tyr	Phe	Pro	Leu	Leu	Pro	His	Pro	
102	65		_	-		70			•		75					80	
103	•					. •											
	ата	maa	ma a	mma	aaa	maa	CCT	OTT C	mag	maa	aaa	maa.	C 3 3	aaa	maa	CTC.	288
104																	200
105	Leu	Ser	Tyr	Pne		Trp	Pro	Leu	туr	_	Ата	cys	GIN	стХ	-	vaı	
106					85					90					95		
107																	
108	CTA	ACC	GGC	GTC	TGG	GTC	ATA	GCC	CAC	GAA	TGC	GGC	CAC	CAC	GCC	TTC	336
109	Leu	Thr	Gly	Val	Trp	Val	Ile	Ala	His	Glu	Cys	Gly	His	His	Ala	Phe	
110			_	100	_				105		-			110			
111																	
112	AGC	GAC	ТΔС	CAG	TGG	СТТ	GAC	GAC	ACC	GTC	GGT	СТС	ATC	ттс	CAC	TCC	384
113							Asp										
114	Der	ьэр	_	GIII	111	пса	лор	120	1111	V 4.1	Ory	1,00	125	1110	1115	501	
			115					120					123				
115			~=~	~=~	~~=			maa			m. a		~ » m	~~~		a.a	4.20
116							TTC										432
117	Phe	Leu	Leu	Va⊥	Pro	Tyr	Phe	Ser	Trp	Lys	тyr		His	Arg	Ser	His	
118		130					135					140					
119																	
120	CAT	TCC	AAC	ACT	GGC	TCC	CTC	GAG	AGA	GAC	GAA	GTG	TTT	GTC	CCC	AAG	480
121	His	Ser	Asn	Thr	Gly	Ser	Leu	Glu	Arg	Asp	Glu	Val	Phe	Val	Pro	Lys	
122	145				-	150			_	_	155					160	
123	AAG	AAG	TCA	GAC	ATC	AAG	TGG	TAC	GGC	AAG	TAC	CTC	AAC	AAC	CCT	TTG	528
124							Trp										
125	_,_	2,5	501	пор	165	,.		- 1 -	O = 1	170	- ] -				175		
126					103					1,0					1,5		
127	CCA	aaa	N C C	OTT C	л ш С	mm x	ACG	C TTITT	CAC	መመረ	х ст	CTC	aaa	TOC	CCC	THE C	576
																	370
128	GIY	Arg	THE		мес	Leu	Thr	vaı		Pne	THE	Leu	GTÅ	_	PIO	ьeu	
129				180					185					190			
130															_		
131							TCG										624
132	Tyr	Leu	Ala	Phe	Asn	Val	Ser	Gly	Arg	Pro	Tyr	Asp	Gly	Gly	Phe	Arg	
133			195					200					205				
134																	
135	TGC	CAT	TTC	CAC	CCC	AAC	GCT	CCC	ATC	TAC	AAC	GAC	CGC	GAG	CGT	CTC	672
136	Cys	His	Phe	His	Pro	Asn	Ala	Pro	Ile	Tyr	Asn	Asp	Arg	Glu	Arg	Leu	
137	-	210					215			-		220	_		_		
138																	
139	CAG	ΔΨΔ	ТΔС	ΔТС	TCC	GAC	GCT	GGC	ΔТС	СТС	GCC	GTC	TGC	TAC	GGT	CTC	720
140					_		Ala										, 20
141		тте	тут	TTE	261		AIG	СТУ	TIE	Leu		Val	Cys	ı yı	GLY	240	
	225					230					235					240	
142								~~.	~=~	~~~			~=~	=	mm a	m . a	7.0
143							CAG										768
144	Phe	Arg	Tyr	Ala		GŢĀ	Gln	$\mathtt{GTA}$	Va⊥		Ser	Met	Val	Cys		Tyr	
145					245					250					255		
146																	
147							GTC										816
148	Gly	Val	Pro	Leu	Leu	Ile	Val	Asn	Gly	Phe	Leu	Val	Leu	Ile	Thr	Tyr	
149	-			260					265					270		-	
150				-													
151	ጥጥር	CAG	CAC	ACG	САТ	ССТ	TCC	СТС	CCT	CAC	TAC	GAT	TCG	TCC	GAG	TGG	864
152							Ser										
102	пеп	GIII	1113	TILL	1113	110	DC L	ьeu	110		- y -	Top	Der	Der	υ±u	1 L D	

## RAW SEQUENCE LISTING PATENT APPLICATION US/08/572,027B

DATE: 05/06/98 TIME: 12:59:05

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153			275					280					285					
154																		
155	GAT	TGG	TTC	AGG	GGA	GCT	TTG	GCT	ACC	GTT	GAC	AGA	GAC	TAC	GGA	ATC		912
156	Asp	Trp	Phe	Arg	Gly	Ala	Leu	Ala	Thr	Val	Asp	Arg	Asp	Tyr	Gly	Ile		
157	-	290		_	-		295				-	300	-	-	-			
158																		
159	ጥጥር	AAC	ΔAG	GTC	ጥጥሮ	CAC	ъът	<b>Δ</b> ΤΡΤΡ	ΔCC	GAC	ACG	CAC	GTG	GCC	САТ	САТ		960
160						His												,,,,
		ASII	пуз	AGT	FIIE		HSII	116	1111	АБР	315	1112	Val	Ата	1112	320		
161	305					310					313					320		
162	~~~						a		~ . ~			<b>a</b>	a a m			999		1000
163						CCG												1008
164	Pro	Phe	Ser	Thr		Pro	His	Tyr	His		Met	GLu	Ala	Thr	_	Ala		
165					325					330					335			
166																		
167	ATA	AAG	CCG	ATA	CTG	GGA	GAG	TAT	TAT	CAG	TTC	GAT	GGG	ACG	CCG	GTG		1056
168	Ile	Lys	Pro	Ile	Leu	Gly	Glu	Tyr	Tyr	Gln	Phe	Asp	Gly	Thr	Pro	Val		
169				340					345					350				
170																		
171	GTT	AAG	GCG	ATG	TGG	AGG	GAG	GCG	AAG	GAG	TGT	ATC	TAT	GTG	GAA	CCG		1104
172						Arg												
173		-1-	355			5		360	-1-		- 1		365					
174																		
175	CAC	N.C.C	CAA	COT	GAG	AAG	<b>7 7 7</b>	CCT	CTC	ጥጥር	TCC	ሞልሮ	A A C	ידאא	λλG	תידי א	ΤP	1153
176						Lys											•	1133
	ASP	_	GTII	GIY	GIU	ьуз		СТУ	Val	FILE	тър	-	ASII	ASII	цуз	пеп		
177		370					375					380						
178																		
179	GA																	1155
180																		
181																		
182	(2)	INF	ORMA	rion	FOR	SEQ	ID I	10:2	:									
183																		
184			(i) S	SEQUE	ENCE	CHAI	RACTI	ERIST	rics:	:								
185				( A )	) LEI	IGTH:	384	am:	ino a	acids	3							
186				(B)	TYI)	PE: 8	amino	ac	id									
187				( D	TOI (	POLO	GY: I	linea	ar									
188																		
189		( :	ii) N	MOLE	CULE	TYPE	E: pi	rote:	in									
190		-	·				-											
191		( )	xi) S	SEQUI	ENCE	DESC	CRIP	rion	: SEC	Q ID	NO:2	2:						
192		•	•	_														
193	Met	Glv	Ala	Glv	Glv	Arg	Met	Gln	Val	Ser	Pro	Pro	Ser	Lys	Lys	Ser		
194	1	1		1	5					10				1 -	15			
195	-				•													
196	Glu	Thr	Aen	Thr	T۱۵	Lys	Δrα	Va1	Pro	Cvc	Glu	Thr	Pro	Pro	Pho	Thr		
197	Ju	+ * 1 +	νaħ	20	-T-G	כעה	A- 9	۷ат	25	Cys	01 U	1111	110	30	1116	1111		
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199	val	стХ		ьeu	ьys	Lys	ата		PI.O	PIO	пıS	cys		гÀг	Arg	ser		
200			35					40					45					
201		_	_				_	_		_								
202	Ile		Arg	Ser	Phe	Ser	-	Leu	Ile	Trp	Asp		Ile	Ile	Ala	Ser		
203		50					55					60						
204																		
205	Cys	Phe	Tyr	Tyr	Xaa	Ala	Thr	Thr	Tyr	Phe	Pro	Leu	Leu	Pro	His	Pro		

## RAW SEQUENCE LISTING PATENT APPLICATION US/08/572,027B

DATE: 05/06/98 TIME: 12:59:06

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206	65					70					75			11	VPUI	80 80
207 208 209 210	Leu	Ser	Tyr	Phe	Ala 85	Trp	Pro	Leu	Туr	Trp 90	Ala	Cys	Gln	Gly	Cys 95	Val
211 212 213	Leu	Thr	Gly	Val 100	Trp	Val	Ile	Ala	His 105	Glu	Cys	Gly	His	His 110	Ala	Phe
214 215 216	Ser	Asp	Туг 115	Gln	Trp	Leu	Asp	Asp 120	Thr	Val	Gly	Leu	Ile 125	Phe	His	Ser
217 218 219	Phe	Leu 130	Leu	Val	Pro	Tyr	Phe 135	Ser	Trp	Lys	Tyr	Ser 140	His	Arg	Ser	His
220 221 222	His 145	Ser	Asn	Thr	Gly	Ser 150	Leu	Glu	Arg	Asp	Glu 155	Val	Phe	Val	Pro	Lys 160
223 224 225	Lys	Lys	Ser	Asp	11e 165	Lys	Trp	Tyr	Gly	Lys 170	Туr	Leu	Asn	Asn	Pro 175	Leu
226 227 228	Gly	Arg	Thr	Val 180	Met	Leu	Thr	Val	Gln 185	Phe	Thr	Leu	Gly	Trp 190	Pro	Leu
229 230 231	Tyr	Leu	Ala 195	Phe	Asn	Val	Ser	Gly 200	Arg	Pro	Tyr	Asp	Gly 205	Gly	Phe	Arg
232 233 234	Cys	His 210	Phe	His	Pro	Asn	Ala 215	Pro	Ile	Tyr	Asn	Asp 220	Arg	Glu	Arg	Leu
235 236 237	Gln 225	Ile	Tyr	Ile	Ser	Asp 230	Ala	Gly	Ile	Leu	Ala 235	Val	Cys	Тyr	Gly	Leu 240
238 239 240		_	_		Ala 245	_		_		250					255	
241 242 243	Gly	Val	Pro	Leu 260	Leu	Ile	Val	Asn	Gly 265	Phe	Leu	Val	Leu	11e 270	Thr	Tyr
244 245 246			275		His			280			-	_	285			_
247 248 249		290			Gly		295					300				
250 251 252	Leu 305	Asn	Lys	Val	Phe	His 310	Asn	Ile	Thr	Asp	Thr 315	His	Val	Ala	His	His 320
<ul><li>253</li><li>254</li><li>255</li></ul>					Met 325					330					335	
256 257 258	Ile	Lys	Pro	Ile 340	Leu	Gly	Glu	Tyr	Tyr 345	Gln	Phe	Asp	Gly	Thr 350	Pro	Val

## **SEQUENCE VERIFICATION REPORT** PATENT APPLICATION *US/08/572,027B*

DATE: 05/06/98 TIME: 12:59:07

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Original Text